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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577,992	06/16/2006	Kikuo Yamada	HOS-73	4522
7590 11/16/2007 H. Jay Spiegel & Associates PC P.O. Box 11 Mount Vernon, VA 22121			EXAMINER MCDONALD, SHANTESE L	
			ART UNIT 3723	PAPER NUMBER
			MAIL DATE 11/16/2007	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/577,992

Applicant(s)

YAMADA, KIKUO

Examiner

Shantese L. McDonald

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on 16 June 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☐ Claim(s) 1-5 and 9-23 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) 1-5 and 9-23 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>5/3/06</u>  | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka (6,968,591), in view of Tanaka et al. (6,506,472).

Tanaka (6,968,591) teaches a cleaning tool sheet comprising fiber bundles, 3,4,6, laminated on one side of a base sheet, 5, wherein the base sheet and the fiber bundles have thermal fusibility, wherein central parts in the direction of flow of the fiber constituting the fiber bundles are joined by a central joining part, 7, continuously formed in the central part of the base sheet and joined at a joining part formed on a parallel line between the central joining part and two end edges parallel there with, wherein the two ends in the direction of flow of the fibers are not joined to the base sheet, (col. 5, line 64-col. 6, line 6). Tanaka (6,968,591) also teaches a holding sheet comprising two non-woven sheets bounded together to define a holding part therein, the holding sheet bonded to a side of the base sheet opposite the fiber bundles, (col. 9, lines 36-50), the holding sheet comprising two bag form holding parts, 22, (col. 8, lines 26-37), the holding sheets further comprising a color part indicating a location for insertion of an insertion part of a cleaning tool and further comprising a pattern of surface irregularities, 24, indicating a location of insertion of a cleaning tool, (col. 9, lines 40-44). Tanaka

(6,968,591) teaches all the limitations of the claims except for joining part formed intermittently on a parallel line between the central joining part and the two edges being intermittent spot-form joining portions formed such that they don't overlap in the direction of flow of the fiber bundles, the thickness of the fibers being 1 to 18 denier, and the holding sheet comprising a single non-woven sheet folded in two and heat sealed to a side of a base sheet opposite the fiber bundles. Tanaka et al. (6,506,472) teaches for joining part formed intermittently on a parallel line between the central joining part and the two edges being intermittent spot-form joining portions formed such that they don't overlap in the direction of flow of the fiber bundles, (col. 6, line 64-col. 7, line 7). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the tool of Tanaka (6,968,591), with for joining part formed intermittently on a parallel line between the central joining part and the two edges being intermittent spot-form joining portions formed such that they don't overlap in the direction of flow of the fiber bundles, as taught by Tanaka et al. (6,506,472), in order to enhance durability of the cleaning tool. It would have been further obvious to provide the tool of Tanaka (6,968,591) with the fiber bundles having a thickness of the fibers being 1 to 18 denier, as a matter of obvious design choice. It would have been further obvious to provide the tool of Tanaka (6,968,591), with the holding sheet comprising a single non-woven sheet folded in two and heat sealed to a side of a base sheet opposite the fiber bundles, since Tanaka teaches fusing two sheets to form a holding part, and it is obvious to provide two sheets, or fold on sheet in half to form a holding part.

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### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Suzuki et al. was cited to show another example of a cleaning tool.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shantese L. McDonald whose telephone number is (571) 272-4486. The examiner can normally be reached on 8:00 a.m. - 4:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Hail can be reached on (571) 272-4485. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

S.L.M.

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November 12, 2007

A handwritten signature in black ink, appearing to read "Joseph J. Hail, III". The signature is stylized with a large, looped initial "J" and a cursive "Hail".

Joseph J. Hail, III  
Supervisory Patent Examiner  
Technology Center 3700